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# **OPTICAL METHODS IN EXPERIMENTAL SOLID MECHANICS**

EDITED BY

KARL-HANS LAERMANN



Springer-Verlag Wien GmbH

# Optical Methods Experimental

**VCH Staff**



## **Optical Methods Experimental:**

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**Optical Methods in Experimental Mechanics** Charles August Trabert, 1997 **Buckling Experiments: Experimental Methods in Buckling of Thin-Walled Structures, Volume 2** Josef Singer, Johann Arbocz, Tanchum Weller, 2002-08-12 Edited by Josef Singer the world's foremost authority on structural buckling Time saving and cost effective design data for all structural mechanical and aerospace engineering researchers Optical Methods of Engineering Analysis Gary L. Cloud, 1998-05-28 Fundamental measurement problems in engineering mechanics manufacturing and physics are now being solved by powerful optical methods This book presents a lucid up to date discussion of these optical methods Beginning from a firm base in modern optics the book proceeds through relevant theory of interference and diffraction and integrates this theory with descriptions of laboratory techniques and apparatus Among the techniques discussed are classical interferometry photoelasticity geometric moire spatial filtering moire interferometry holography holographic interferometry laser speckle interferometry and video based speckle methods By providing a firm base in the physical principles and at the same time allowing the reader to perform meaningful experiments related to the topic being studied the book offers a unique user oriented approach that will appeal to students researchers and practising engineers Optical Methods in Experimental Mechanics VCH Staff, 1998-08-01

*Advancements in Optical Methods & Digital Image Correlation in Experimental Mechanics, Volume 3* Ming-Tzer Lin, Cesar Sciammarella, Horacio D. Espinosa, Cosme Furlong, Luciano Lamberti, Phillip Reu, Michael Sutton, Chi-Hung

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